

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: GOLDFISH POND	Lake Area (ha):	2.30
Town: HOOKSETT	Maximum depth (m):	0.5
County: Hillsborough	Mean depth (m):	0.3
River Basin: Merrimack	Volume (m <sup>3</sup> ):	7000
Latitude: 43°01'10" N	Relative depth:	0.3
Longitude: 71°26'40" W	Shore configuration:	1.45
Elevation (ft): 315	Areal water load (m/yr):	93.43
Shore length (m): 780	Flushing rate (yr <sup>-1</sup> ):	560.6
Watershed area (ha): 445.8	P retention coeff.:	0.24
% watershed ponded: 0.0	Lake type:	

BIOLOGICAL:

21 August 2001

DOM. PHYTOPLANKTON (% TOTAL)	#1	NO PLANKTON
	#2	SAMPLES COLLECTED
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		Very abundant
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		3.4
BACTERIA (E. coli, #/100 ml)	#1	38
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**Lake: GOLDFISH POND  
Town: HOOKSETT

		21 August 2001		
DEPTH (m)				
pH (units)		7.1		
A.N.C. (Alkalinity)		32.3		
NITRATE NITROGEN		< 0.05		
TOTAL KJELDAHL NITROGEN		0.60		
TOTAL PHOSPHORUS		0.031		
CONDUCTIVITY ( $\mu\text{mhos/cm}$ )		818.0		
APPARENT COLOR (cpu)		90		
MAGNESIUM		4.05		
CALCIUM		20.7		
SODIUM		103.0		
POTASSIUM		4.29		
CHLORIDE		220		
SULFATE		11		
TN : TP		19		
CALCITE SATURATION INDEX		1.4		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 2001**

D.O. S.D. PLANT CHL TOTAL CLASS

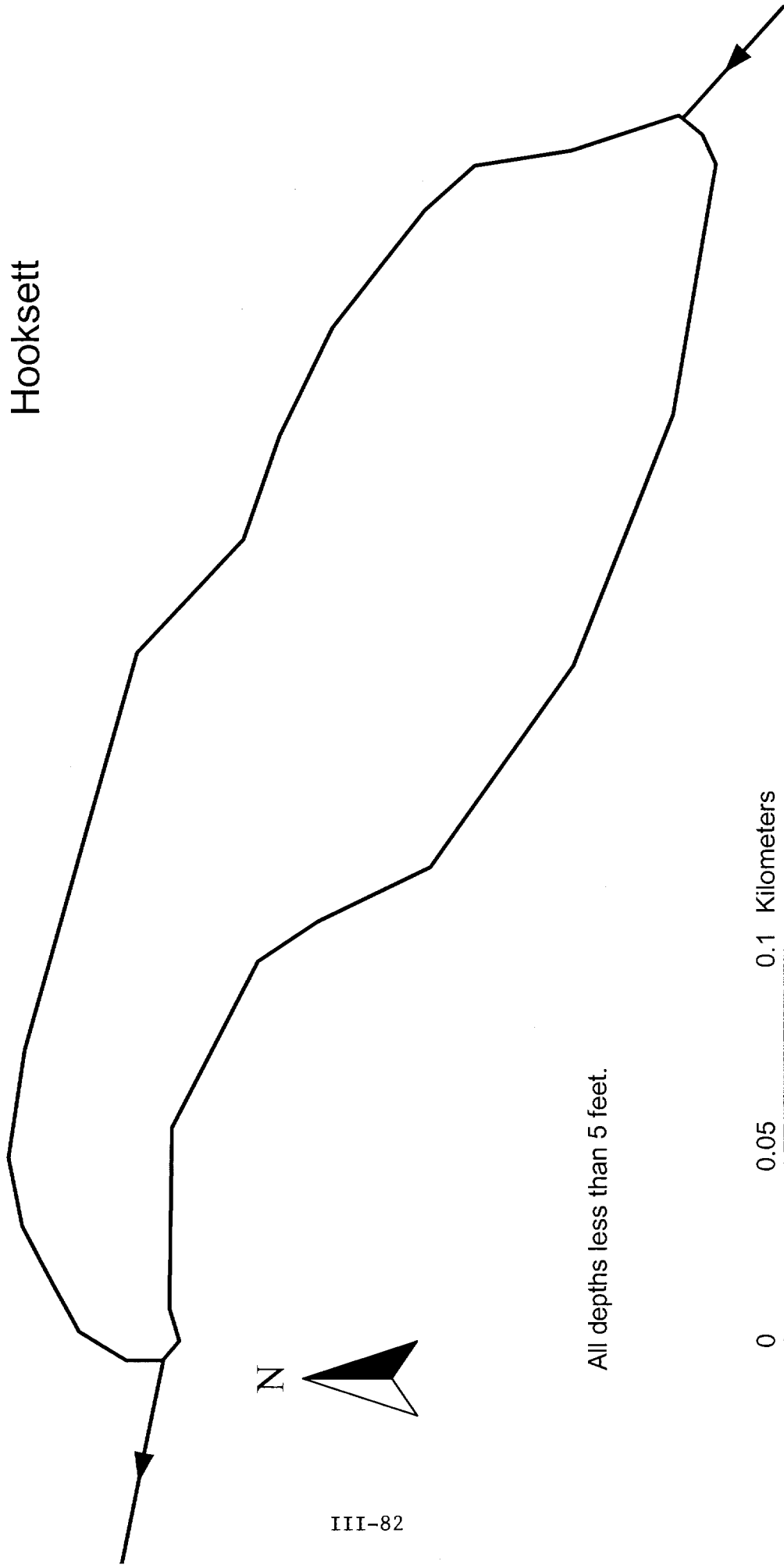
**	**	6	**	**	N/C
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**COMMENTS:**

1. This is a small, very shallow wetland pond located upstream of Dorrs Pond. All depths were 0.5 meters or less. It is listed as a wetland in the lakes database and was not given a trophic class. It was too shallow for a Secchi disk reading.
2. It was sampled in conjunction with Manchester's Urban Ponds program.
3. The pond is located adjacent to the I93 interchange # 9 with Route 28. It is subject to runoff from highway and urban areas.
4. Elevated sodium, chloride and conductivity values suggest salt runoff from the adjacent highways.
5. The water was dark tea colored but not acidic.
6. The pond was not sampled during the winter; it was likely frozen to the bottom because of its shallow depth.

# Goldfish Pond

Hooksett



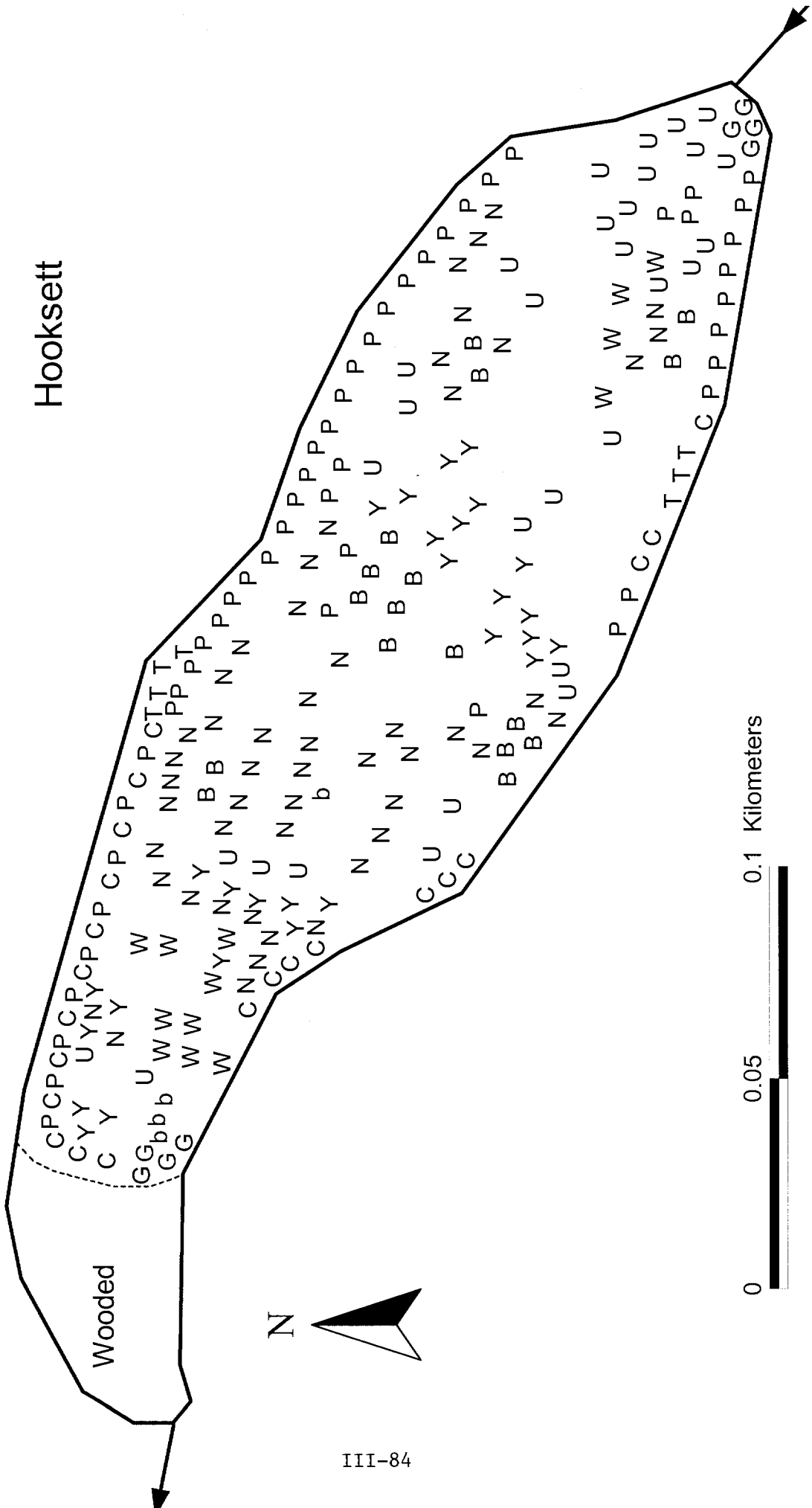
All depths less than 5 feet.



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# Goldfish Pond

# Hooksett



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